BlackBerry Q5 SQR100-1 Smartphone

BC

PRINTSPEC-141
SWD-20130611135646109 | RFR101LW

Safety and Product Information

MAT-55302-001

Safety information

Excited to start using your BlackBerry smartphone? Before you get started, read this booklet which contains important safety and regulatory information for your BlackBerry smartphone. Keep this booklet in a safe place so that you can refer to it whenever you need it.

In some countries there may be restrictions on using Bluetooth enabled devices and wireless devices with encryption software. Check with your local authorities for the restrictions in your area.

To find the latest safety and product information, visit www.blackberry.com/docs/smartphones.

Important safety precautions

	Use only approved chargers with your BlackBerry smartphone. Use of chargers that have not been approved by Research In Motion might present a risk of fire or explosion, which could cause serious harm, death, or property loss. Use only RIM approved holsters. Use of holsters that have not been approved by RIM might, in the long term, present a risk of serious harm.
	When you wear the BlackBerry smartphone close to your body, use a RIM approved holster with an integrated belt clip, or maintain a distance of 0.59 in. (15 mm) between your BlackBerry smartphone and your body while the BlackBerry smartphone is transmitting. Use of body-worn accessories, other than RIM approved holsters with an integrated belt clip, might cause your BlackBerry smartphone to exceed radio frequency exposure standards if the accessories are worn on your body while the BlackBerry smartphone is transmitting. The long term effects of exceeding radio frequency exposure standards might present a risk of serious harm. For more information about the compliance of this BlackBerry smartphone with the FCC radio frequency emission guidelines, visit www.fcc.gov/oet/ea/fccid and search for the FCC ID for your BlackBerry smartphone listed below. The FCC ID is located on the back of your BlackBerry smartphone. • BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW): FCC ID L6ARFR100LW
	Your BlackBerry smartphone is designed to be operated in temperatures between 32 and 95°F (0 and 35°C). Use of your BlackBerry smartphone outside of the recommended temperature range could cause damage to your BlackBerry smartphone and its non-removable lithium-ion battery.
	Do not rely on your BlackBerry smartphone for emergency communications. The wireless networks that are necessary to make emergency calls or send messages are not available in all areas, and emergency numbers, such as 911, 112, or 999, might not connect you to emergency services in all areas. If you have the BlackBerry Mobile Voice System installed on your BlackBerry smartphone, see the "About emergency calls and the BlackBerry Mobile Voice System" section for more information about emergency calls.
	Do not disassemble your BlackBerry smartphone. Your BlackBerry smartphone contains small parts that might be a choking hazard. The rear cover of the smartphone is not removable.
	Keep your BlackBerry smartphone away from medical devices, including pacemakers and hearing aids, because they might malfunction and cause serious harm or death to you or others.
	Do not put your BlackBerry smartphone in contact with liquids because this might cause a short circuit, a fire, or an electric shock.
	When you use your BlackBerry smartphone speakerphone, never hold the BlackBerry smartphone to your ear. Serious and permanent hearing damage could occur.
	Exposure to flashing lights on your BlackBerry smartphone can cause epileptic seizures or blackouts and might be dangerous to you or others. In the event that you experience, or your use of your BlackBerry smartphone causes in others, any disorientation, loss of awareness, twitching, convulsions, or any involuntary movements, stop using your BlackBerry smartphone immediately and consult a physician. The LED notification light is located on the front of your BlackBerry smartphone, in the upper-right corner. If your BlackBerry smartphone model has a camera, the camera flash LED aperture is located on the back of your BlackBerry smartphone, either above or to the right of the camera lens. If you are susceptible to epileptic seizures or blackouts, consult your physician before you use your BlackBerry smartphone.
	Do not use your BlackBerry smartphone while driving unless you are permitted by law to use the BlackBerry smartphone in hands-free mode. Using your BlackBerry smartphone while driving could put you and others at greater risk of an accident causing serious injury, death, or property loss.
	Do not use your BlackBerry smartphone in the presence of gas fumes because it might present a risk of fire or explosion.
	Do not dispose of your BlackBerry smartphone in a fire because this might cause an explosion resulting in serious injury, death, or property loss.
	Turn off your BlackBerry smartphone on aircrafts. Using your BlackBerry smartphone on an aircraft might affect aircraft instrumentation, communication, and performance; might disrupt the network; might otherwise be dangerous to the operation of the aircraft, its crew, and its passengers; and might be illegal.
	BlackBerry smartphones are not intrinsically safe and cannot be used in the presence of explosive fumes, explosive dust, or other explosive chemicals. Sparks in such areas could cause an explosion or fire resulting in serious injury, death, or damage to property.

Using your smartphone safely

- Do not place heavy objects on your BlackBerry smartphone.
- Do not attempt to modify or service your BlackBerry smartphone.
- Do not attempt to cover or push objects into openings on your BlackBerry smartphone unless instructed to do so in the BlackBerry smartphone documentation supplied by Research In Motion. This action might cause a short circuit, a fire, or an electric shock.
- Do not use sharp objects on the screen.
- Do not use excessive force on the screen.
- Do not use your BlackBerry smartphone or BlackBerry smartphone accessories near water (for example, near a bathtub or a sink, in a wet basement, or near a swimming pool).
- Do not place your BlackBerry smartphone or BlackBerry smartphone accessories on any unstable surface. The BlackBerry smartphone or BlackBerry smartphone accessories could fall, thereby potentially causing serious injury to a person and serious damage to the BlackBerry smartphone or BlackBerry smartphone accessory.
- When using your BlackBerry smartphone, take frequent breaks. If you experience any discomfort in your neck, shoulders, arms, wrists, hands (including thumbs and fingers), or other parts of the body when using your BlackBerry smartphone, cease use immediately. If discomfort persists, consult a physician.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

Electrical safety

Charge the BlackBerry smartphone using only the charging accessories provided by or specifically approved by Research In Motion for use with this BlackBerry smartphone. Any approval from RIM under this document must be in writing and must be from a person authorized to provide such approval. Use of any other accessory might invalidate any warranty provided with the BlackBerry smartphone and might be dangerous.

Approved charging accessory models for the BlackBerry Q5 smartphone
Charging cables: ASY-18072-002, HDW-50071-001, HDW-50071-002, HDW-50071-003, HDW-50071-004, HDW-51800-001, HDW-51800-002
AC chargers: ASY-24479-002, ASY-24479-005, ASY-24479-006, ASY-24479-007, ASY-24479-008, ASY-24479-012, ASY-24479-013, ASY-24479-014, ASY-24479-015, ASY-24479-017, ASY-24479-018, ASY-24479-019, ASY-34724-001, ASY-34725-003, ASY-46444-001, ASY-46444-002, ASY-46444-003, ASY-46444-004, ASY-46444-005, ASY-46444-006, ASY-46444-007
DC chargers: ASY-46705-001, ASY-46706-001
Battery chargers: ASY-54535-001

Use the charging accessories provided with the BlackBerry smartphone or any other RIM approved charging accessories only from the type of power source indicated on the marking label. Before you use any power supply, verify that the mains voltage is in accordance with the voltage printed on the power supply. Connect the BlackBerry smartphone only to CTIA certified adapters, products that bear the USB-IF logo, or products that have completed the USB-IF compliance program.

Do not overload power outlets, extension cords, or convenience receptacles because this might result in a risk of fire or electric shock. To reduce the risk of damage to the cord or the plug, pull the plug rather than the cord when you disconnect the charging accessory from the power outlet or convenience receptacle.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where the power cord connects to the BlackBerry smartphone. Unplug charging accessories during lightning storms or when unused for long periods of time. When you use your BlackBerry smartphone with any charging accessories, ensure that you route the power cord in a way that reduces the risk of injury to others, such as tripping or choking. Do not use charging accessories outside or in any area exposed to the elements.

For more information about connecting the power supply, see the documentation that came with your BlackBerry smartphone.

To buy accessories for your BlackBerry smartphone, contact your wireless service provider or visit www.shopblackberry.com.

Battery safety

Your BlackBerry smartphone contains a non-removable lithium-ion battery. Do not attempt to remove the battery. Removing the battery will void the Limited Warranty for your smartphone and could cause damage to the battery.

The battery might present a fire, explosion, chemical burn, or other hazard if mistreated. Do not put your battery in contact with liquids.

	Do not expose the smartphone and its battery to fire or other external heat sources, such as hot plates, stove tops, space heaters, or ovens, because this could cause fire or explosion.

Do not attempt to insert foreign objects into the battery. Do not remanufacture, disassemble, modify, crush, puncture, bend, or shred the battery. If the battery has been remanufactured, disassembled, modified, crushed, punctured, or altered in any other way, cease use of the battery immediately.

Do not short-circuit the battery or allow metallic or conductive objects to contact the battery terminals.

CAUTION: Use only the battery that Research In Motion specifies for use with your particular BlackBerry smartphone model. RIM specifies batteries for use in BlackBerry smartphones in compliance with IEEE Std 1725. Please ensure you dispose of your smartphone and its battery according to the instructions set out in this safety information booklet.

Driving and walking safely

Give your full attention to driving; driving safely is your first responsibility. You are responsible for knowing and obeying the laws and regulations regarding the use of wireless devices in the areas where you drive.

Research In Motion recommends that you do not use your BlackBerry smartphone while you drive. Instead, consider having a passenger in the vehicle use your BlackBerry smartphone for you, or find a safe location to stop your vehicle before you use your BlackBerry smartphone.

Store your BlackBerry smartphone safely before driving your vehicle. Do not use any charging accessory as a means of storing your BlackBerry smartphone while you are in a vehicle. If your vehicle is equipped with an air bag, do not place your BlackBerry smartphone or other objects above the air bag, or in the air bag deployment area. If in-vehicle wireless equipment is improperly stored or installed and the air bag inflates, serious injury could result.

Radio frequency signals might affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. If any equipment has been added to your vehicle, you should also consult the manufacturer of that equipment for information on radio frequency signals.

Do not use your BlackBerry smartphone while walking or engaging in any activity that requires your full attention. Inattention to vehicular traffic or other pedestrian hazards could result in serious injury, death, or property loss.

Accessories

Use only those accessories approved by Research In Motion. Using any accessories not approved by RIM for use with this particular BlackBerry smartphone model might invalidate any approval or warranty applicable to the BlackBerry smartphone, might result in the BlackBerry smartphone becoming inoperative, and might be dangerous.

Carrying solutions: Your BlackBerry smartphone might not come with a holster (body-worn accessory). If you wear your BlackBerry smartphone on your body, always put your BlackBerry smartphone in a BlackBerry smartphone holster equipped with an integrated belt clip supplied or approved by Research In Motion. If you do not use a holster equipped with an integrated belt clip supplied or approved by RIM when you carry your BlackBerry smartphone, keep your BlackBerry smartphone at least 0.59 in. (15 mm) from your body when the BlackBerry smartphone is transmitting. When using any data feature of your BlackBerry smartphone (for example, email messages, PIN messages, MMS messages, or browser service), with or without a USB cable, hold your BlackBerry smartphone at least 0.59 in. (15 mm) from your body. Using accessories that are not supplied by or approved by RIM might cause your BlackBerry smartphone to exceed radio frequency exposure guidelines. For more information about radio frequency exposure, see the "Compliance information" section of this guide.

Most BlackBerry carrying solutions for BlackBerry smartphones (for example, holsters, totes, and pouches) incorporate a magnet into the physical structure of the carrying solution. Do not place items containing magnetic strip components, such as debit cards, credit cards, hotel key cards, phone cards, or similar items, near BlackBerry carrying solutions that incorporate a magnet into the physical structure of the carrying solution. The magnet might damage or erase the data stored on the magnetic strip.

Magnetometer

Your BlackBerry smartphone includes a magnetometer. The magnetometer is used by applications such as the Compass application. Magnets-or devices that contain magnets, such as holsters, headphones, or monitors-might negatively affect the accuracy of the magnetometer. Do not rely solely on applications that use the magnetometer to determine your location. In an emergency situation, do not rely solely on applications that use the magnetometer.

Media

Certain jurisdictions might prohibit or restrict your use of certain features on your BlackBerry smartphone. When taking, processing, or using pictures, obey all laws, regulations, procedures, and policies, including, without limitation, any copyright, personal privacy, trade secret, or security laws which might govern or restrict you while using your BlackBerry smartphone. Honor the personal rights of others. Copyright protections might prevent you from copying, modifying, transferring, or forwarding some pictures, music (including ring tones), or other content.

Audio files: Permanent hearing loss might occur if you listen to audio files at high volumes, particularly with headphones. Avoid increasing the volume of your headphones to block out noisy surroundings. If you experience ringing in your ears or muffled speech, consult a physician to have your hearing checked.

Camera: If your BlackBerry smartphone has a camera, do not aim the camera directly at the sun or any other bright light. This action could cause serious damage to your eyes or damage your BlackBerry smartphone. When using the camera flash, keep the camera flash LED aperture at least 19.69 in. (50 cm) from the subject's eyes.

Antenna

Use only the supplied integrated antenna. Unauthorized antenna modifications or attachments could damage the BlackBerry smartphone and might violate U.S. Federal Communications Commission (FCC) regulations.

Interference with electronic equipment

Most modern electronic equipment is shielded from radio frequency signals. However, certain electronic equipment might not be shielded against the radio frequency signals from your BlackBerry smartphone.

Pacemakers: Consult a physician or the manufacturer of your pacemaker if you have any questions regarding the effect of radio frequency signals on your pacemaker. Verify that you are using your BlackBerry smartphone in accordance with the safety requirements associated with your particular pacemaker, which might include the following requirements:

- Always keep your BlackBerry smartphone more than 7.88 inches (20 cm) from the pacemaker when your BlackBerry smartphone is turned on.
- Do not carry your BlackBerry smartphone in your breast pocket.
- When using the phone on your BlackBerry smartphone, use the ear opposite the pacemaker for making and receiving calls to minimize the potential interference.
- If you have any reason to suspect that interference is taking place, turn off all wireless connections on your BlackBerry smartphone immediately. Stop using your BlackBerry smartphone and consult a physician.

Hearing aids: Some digital wireless devices might interfere with some hearing aids. In the event of such interference, consult your wireless service provider or contact the manufacturer of your hearing aid to discuss alternatives.

Your BlackBerry smartphone includes a magnetometer, which is used by applications such as the Compass application. If an application that uses the magnetometer causes interference with your hearing aid, close the application.

Other medical devices: If you use any other personal medical device, consult the manufacturer of your device to determine if the device is adequately shielded from external radio frequency energy. Your physician might be able to assist you in obtaining this information.

Health care facilities: Turn off all wireless connections on your BlackBerry smartphone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities might be using equipment that could be sensitive to external radio frequency energy.

Aircraft: Federal Aviation Administration (FAA) and Federal Communications Commission (FCC) regulations prohibit using the radio of wireless devices while in the air. Turn off all wireless connections on your BlackBerry smartphone before boarding an aircraft. The effect of using the BlackBerry smartphone with wireless connections turned on in an aircraft is unknown. Such use might affect aircraft instrumentation, communication, and performance, might disrupt the network, might otherwise be dangerous to the operation of the aircraft, and might be illegal. With all wireless connections on your BlackBerry smartphone turned off, use only nonradio based device applications in accordance with airline regulations for electronic devices.

Dangerous areas

Your BlackBerry smartphone is not an intrinsically safe device and is not suitable for use in hazardous environments, where intrinsically safe devices are required, including without limitation, in the presence of gas fumes, explosive dust situations, operation of nuclear facilities, aircraft navigation or communication services, air traffic control, and life support or weapons systems.

Potentially explosive atmospheres: If you are in any area with a potentially explosive atmosphere, turn off all wireless connections on your BlackBerry smartphone and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gasoline or petrol stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas, such as propane or butane; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Do not use the phone on your BlackBerry smartphone to report a gas leak in the vicinity of the leak. Leave the area and, if the phone is available and active on your BlackBerry smartphone, make the call from a safe location.

Blasting areas: When in a "blasting area" or an area that indicates that two-way radios should be turned off, to avoid interfering with blasting operations, turn off all wireless connections on your BlackBerry smartphone and obey all signs and instructions.

Operating and storage temperatures

Your BlackBerry smartphone and smartphone travel charger are designed to be operated and stored within the temperatures outlined below:

Smartphone operating: 32 to 95°F (0 to 35°C)

Smartphone storage (less than 3 months): -4 to 95°F (-20 to 35°C)

Smartphone storage (3 months or more): 71.6 to 82.4°F (22 to 28°C)

Travel charger operating: 32 to 95°F (0 to 35°C)

Travel charger storage: -22 to 167°F (-30 to 75°C)

Use or storage of your BlackBerry smartphone or BlackBerry smartphone accessories outside of the recommended temperature ranges could cause damage to your BlackBerry smartphone, BlackBerry smartphone accessories, or lithium-ion battery.

Keep your BlackBerry smartphone or BlackBerry smartphone accessories away from heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. If you are not going to use your BlackBerry smartphone for more than two weeks, turn off the BlackBerry smartphone power.

Smartphone cleaning and repair

Cleaning: Do not use liquid, aerosol cleaners, or solvents on or near your BlackBerry smartphone or BlackBerry smartphone accessories. Clean only with a soft dry cloth. Disconnect any cables from the computer and unplug any charging accessories from the electrical outlet before cleaning either your BlackBerry smartphone or the charging accessory.

Repair: Do not attempt to disassemble your BlackBerry smartphone or any charging accessory. Do not attempt to replace your non-removable battery. Only qualified service personnel should perform repairs or battery replacements to your BlackBerry smartphone. If any of the following situations occur, disconnect the power supply cables from the computer or electrical outlet and take your BlackBerry smartphone or charging accessory for service to qualified service personnel:

- The power supply cord, plug, or connector is damaged.
- Liquid has been spilled or objects have fallen into the BlackBerry smartphone or charging accessory.
- The BlackBerry smartphone or charging accessory has been exposed to rain or water.
- The BlackBerry smartphone or charging accessory becomes very hot to the touch.
- The BlackBerry smartphone or charging accessory has been dropped or damaged in any way.
- The BlackBerry smartphone or charging accessory does not operate normally by following the instructions in the user documentation.
- The BlackBerry smartphone or charging accessory exhibits a distinct change in performance.

To reduce the risk of fire or electric shock, adjust only those controls that are covered in the user documentation for your BlackBerry smartphone. An improper adjustment of other controls might cause damage and will often require extensive work by a qualified technician to restore your BlackBerry smartphone, charging accessory, or any other accessory to normal operation.

Failure to observe all safety instructions contained in the user documentation for your BlackBerry smartphone will void the Limited Warranty and might lead to suspension or denial of services to the offender, legal action, or both.

Smartphone and battery disposal

Do not dispose of either your BlackBerry smartphone or the battery in household waste bins or in a fire.

For information about returning your smartphone and accessories to Research In Motion for recycling and safe disposal, from a browser on your computer, visit www.blackberry.com/recycling or https://tradeup.blackberry.com. The recycling and trade-up programs are only available in certain areas.

If these programs are not offered in your area, check with your local government for regulations regarding the proper disposal of electronic products.

Dispose of your smartphone and its battery in accordance with the laws and regulations in your area governing disposal of such cell types.

About emergency calls and the BlackBerry Mobile Voice System

If you have the BlackBerry Mobile Voice System installed on your BlackBerry smartphone, the following statements are applicable to you:

Emergency calls to 911, 112, 000, 999, or other internationally recognized numbers intended to connect to a public safety answering point or similar emergency services are not processed through the BlackBerry Mobile Voice System, and are only processed from your BlackBerry smartphone where mobile network coverage is available from a wireless service provider. The BlackBerry MVS is not designed or intended to be a replacement for traditional telephone service. Additional arrangements must be made, separate from the BlackBerry MVS, for you to obtain access to traditional fixed or wireless telephone services, such as emergency calling capability. RIM and its affiliates, and their respective officers, directors, and employees shall have no responsibility or liability whatsoever for any personal injury, death, or damages arising out of or in connection with the inability to access emergency call services (for example, 911, 112, 000, or 999) through the BlackBerry MVS. By using the BlackBerry MVS Client, you agree to the above. If you do not agree to the above, remove the BlackBerry MVS Client from your smartphone.

Compliance information

Exposure to radio frequency signals

The BlackBerry smartphone radio is a low power radio transmitter and receiver. When the BlackBerry smartphone radio is turned on, it receives and also sends out radio frequency signals. The BlackBerry smartphone is designed to comply with Federal Communications Commission (FCC), and Industry Canada (IC) guidelines respecting safety levels of radio frequency exposure for wireless devices, which in turn are consistent with the following safety standards previously set by Canadian, U.S., and international standards bodies:

- ANSI/IEEE C95.1, 2005, American National Standards Institute/Institute of Electrical and Electronics Engineers Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
- National Council on Radiation Protection and Measurements (NCRP) Report 86, 1986, Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields
- Health Canada, Safety Code 6, 2009, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz

To maintain compliance with FCC and IC radio frequency exposure guidelines when you carry the BlackBerry smartphone on your body, use only accessories equipped with an integrated belt clip that are supplied or approved by Research In Motion. Use of accessories that are not expressly approved by RIM might violate FCC and IC radio frequency exposure guidelines and might void any warranty applicable to the BlackBerry smartphone. If you do not use a body-worn accessory equipped with an integrated belt clip supplied or approved by RIM when you carry the BlackBerry smartphone, keep the BlackBerry smartphone at least 0.59 in. (15 mm) from your body when the BlackBerry smartphone is transmitting. When using any data feature of the BlackBerry smartphone, with or without a USB cable, hold the BlackBerry smartphone at least 0.59 in. (15 mm) from your body. If you use a body-worn accessory not supplied by RIM when you carry the BlackBerry smartphone, verify that the accessory does not contain metal and keep the BlackBerry smartphone at least 0.59 in. (15 mm) from your body when the BlackBerry smartphone is transmitting.

To reduce radio frequency exposure consider these safety guidelines:

- Use the BlackBerry smartphone in areas where there is a strong wireless signal. The indicator that provides information about the strength of the wireless signal is located in the upper-right corner of the home screen and displays five ascending bars. Three or more bars indicate a strong signal. A reduced signal display, which might occur in areas such as an underground parking structure or if you are traveling by train or car, might indicate increased power output from your BlackBerry smartphone as it attempts to connect to a weak signal.

- Use hands-free operation if it is available and keep the BlackBerry smartphone at least 0.59 in. (15 mm) from your body (including the abdomen of pregnant women and the lower abdomen of teenagers) when the BlackBerry smartphone is turned on and connected to the wireless network. For more information about carrying your BlackBerry smartphone, see the holster information in the "Accessories" section of this document.
- Reduce the amount of time spent on calls, or send a text message or BBM message instead.

Specific absorption rate data

THIS WIRELESS DEVICE MODEL MEETS GOVERNMENT REQUIREMENTS FOR EXPOSURE TO RADIO WAVES WHEN USED AS DIRECTED IN THIS SECTION.

The BlackBerry smartphone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government and Industry Canada (IC) of the Canadian Government when used as directed in the previous section. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC/IC is 1.6W/kg*. Tests for SAR are conducted using standard operating positions specified by the FCC/IC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a wireless device model is available for sale to the public, it must be tested and certified to the FCC and IC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC and IC for each model.

The highest SAR value for your BlackBerry smartphone model when tested for use at the ear is outlined as follows:

Smartphone	SAR (W/kg) for 1 g
BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW)	1.38

The highest reported body SAR value for this BlackBerry smartphone when clipped on a belt, in a Research In Motion approved holster equipped with an integrated belt clip, is outlined below. Carrying solutions, including RIM approved carrying solutions and carrying solutions not approved by RIM, that do not come equipped with an integrated belt clip SHOULD NOT be worn or carried on the body. For more information regarding the wearing or carrying of this BlackBerry smartphone without using a RIM approved carrying solution equipped with an integrated belt clip, see the holster information in the "Accessories" section of this document.

Smartphone	SAR (W/kg) for 1 g
BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW)	0.85

If your BlackBerry smartphone operates in Mobile Hotspot mode, the highest reported body SAR value for this BlackBerry smartphone when clipped on a belt, in a Research In Motion approved holster equipped with an integrated belt clip, is outlined below.

Smartphone	SAR (W/kg) for 1 g
BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW)	1.15

Body-worn measurements differ among wireless device and phone models, depending upon available accessories and FCC and IC requirements.

The FCC has granted an Equipment Authorization for this wireless device model with all reported SAR levels evaluated as in compliance with the FCC radio frequency emission guidelines when the BlackBerry smartphone is used as directed in this section. SAR information on this wireless device model is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea after searching for the FCC ID for your BlackBerry smartphone listed below.

Smartphone	FCC ID
BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW)	L6ARFR100LW

Additional information on SAR can be found on the CTIA - The Wireless Association website at www.ctia.org.

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* In the United States and Canada, the SAR limit for mobile devices used by the public is 1.6W/kg averaged over 1 g of tissue for the body or head (4.0W/kg averaged over 10 g of tissue for the extremities - hands, wrists, ankles, and feet).

FCC compliance statement (United States)

FCC Class B Part 15

This smartphone complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This smartphone may not cause harmful interference.
- This smartphone must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instructions, may cause interference harmful to radio communications.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning on and turning off the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

US Information Concerning the Federal Communications Commission ("FCC") Requirements for Hearing Aid Compatibility with Wireless Devices

When wireless devices are used near hearing devices (such as hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference, and wireless devices also vary in the amount of interference that they generate.

The wireless telephone industry has developed ratings to assist hearing device users in finding wireless devices that may be compatible with their hearing devices. Not all wireless devices have been rated. Wireless devices that are rated will have the rating displayed on the box together with other relevant approval markings.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device is vulnerable to interference, you may not be able to use a rated wireless device successfully.

Consulting with your hearing health professional and testing the wireless device with your hearing device is the best way to evaluate it for your personal needs.

This BlackBerry smartphone has been tested and rated for use with hearing aids for some of the wireless technologies that the BlackBerry smartphone uses. However, other wireless technologies may be used in this BlackBerry smartphone that have not been tested for use with hearing aids. It is important to try the different features of your BlackBerry smartphone thoroughly and in different locations to determine if you hear any interfering noise when using this BlackBerry smartphone with your hearing aid or cochlear implant. Consult your wireless service provider about its return and exchange policies and for information about hearing aid compatibility.

How the ratings work

M-Ratings: Wireless devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than wireless devices that are not labeled. M4 is the better or higher of the two ratings.

T-Ratings: Wireless devices rated T3 or T4 meet FCC requirements and are likely to be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated wireless devices. T4 is the better or higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from wireless devices.

For more information about the actions that the FCC has taken with regard to hearing aid compatibility with wireless devices and other steps that the FCC has taken to ensure that individuals with disabilities have access to telecommunications services, visit www.fcc.gov/cgb/dro.

Industry Canada certification

This smartphone complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following conditions:

- This smartphone may not cause interference.
- This smartphone must accept any interference, including interference that may cause undesired operation of the smartphone.

The BlackBerry Q5 SQR100-1 smartphone (model number RFR101LW) complies with Industry Canada RSS 102, RSS 132, RSS 133, RSS 139, RSS-GEN, and RSS 210 under certification number 2503A-RFR100LW.

Class B compliance

This BlackBerry smartphone complies with the Class B limits for radio noise emissions as set out in the interference-causing equipment standard entitled "Information Technology Equipment (ITE) – Limits and methods of measurement," ICES-003 of Industry Canada.

Additional regulatory conformance

Specific details about compliance to the standards and regulatory bodies for your BlackBerry smartphone may be obtained from Research In Motion.

For additional Type Approval information please view the Regulatory Approvals drop-down list on the About screen on your smartphone.

Product information: BlackBerry Q5 SQR100-1 Smartphone (model number RFR101LW)

Mechanical properties:

- Weight: approximately 4.2 oz (120 g) including lithium-ion cell battery
- Size (L x W x H): 4.7 x 2.6 x 0.4 in. (120 x 66 x 10.8 mm)
- 2 GB RAM, 8 GB flash memory, micro SD card slot

Power specifications:

- Non-removable, rechargeable lithium-ion cell battery
- Supports 3V, 1.8V micro SIM cards
- Port compatibility for data synchronization and charging: micro USB 2.0

Mobile network radio specifications:

- Quad-band LTE support: LTE 700, LTE 850, AWS 1700, PCS 1900 MHz band
- Quad-band HSPA+ support: UMTS 800/UMTS 850, AWS 1700, PCS 1900, IMT 2100 MHz band
- Quad-band GSM support: GSM 850, GSM 900, DCS 1800, PCS 1900 MHz band
- Power class: Class 1 (DCS 1800, PCS 1900), Class 4 (GSM 850) as defined in GSM 5.05, Class 4 (GSM 900) as defined in GSM 02.06, Class E2 (GSM 850, GSM 900, DCS 1800, PCS 1900), Class 3 (UMTS, LTE)
- Transmitting frequency: GSM 824 to 849 MHz, GSM 880 to 915 MHz, DCS 1710 to 1785 MHz, PCS 1850 to 1910 MHz, IMT 1920 to 1980 MHz, LTE 704 to 716 MHz, AWS 1710 to 1755 MHz
- Receiving frequency: GSM 869 to 894 MHz, GSM 925 to 960 MHz, DCS 1805 to 1880 MHz, PCS 1930 to 1990 MHz, IMT 2110 to 2170 MHz, LTE 734 to 746 MHz, AWS 2110 to 2155 MHz

Wi-Fi network radio specifications:

- Wireless LAN standard: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
- Transmitting and receiving frequency for IEEE 802.11b/IEEE 802.11g/IEEE 802.11n: 2.412 to 2.472 GHz

Bluetooth radio specifications:

- Single-band support: ISM 2.4 GHz
- Transmitting and receiving frequency: 2402 to 2480 MHz
- Bluetooth Class 1

If your smartphone supports NFC technology, the following specifications apply:

- Operating frequency: 13.56 MHz
- Supported modes: reader/writer, card emulation, peer-to-peer

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